

# Data science project

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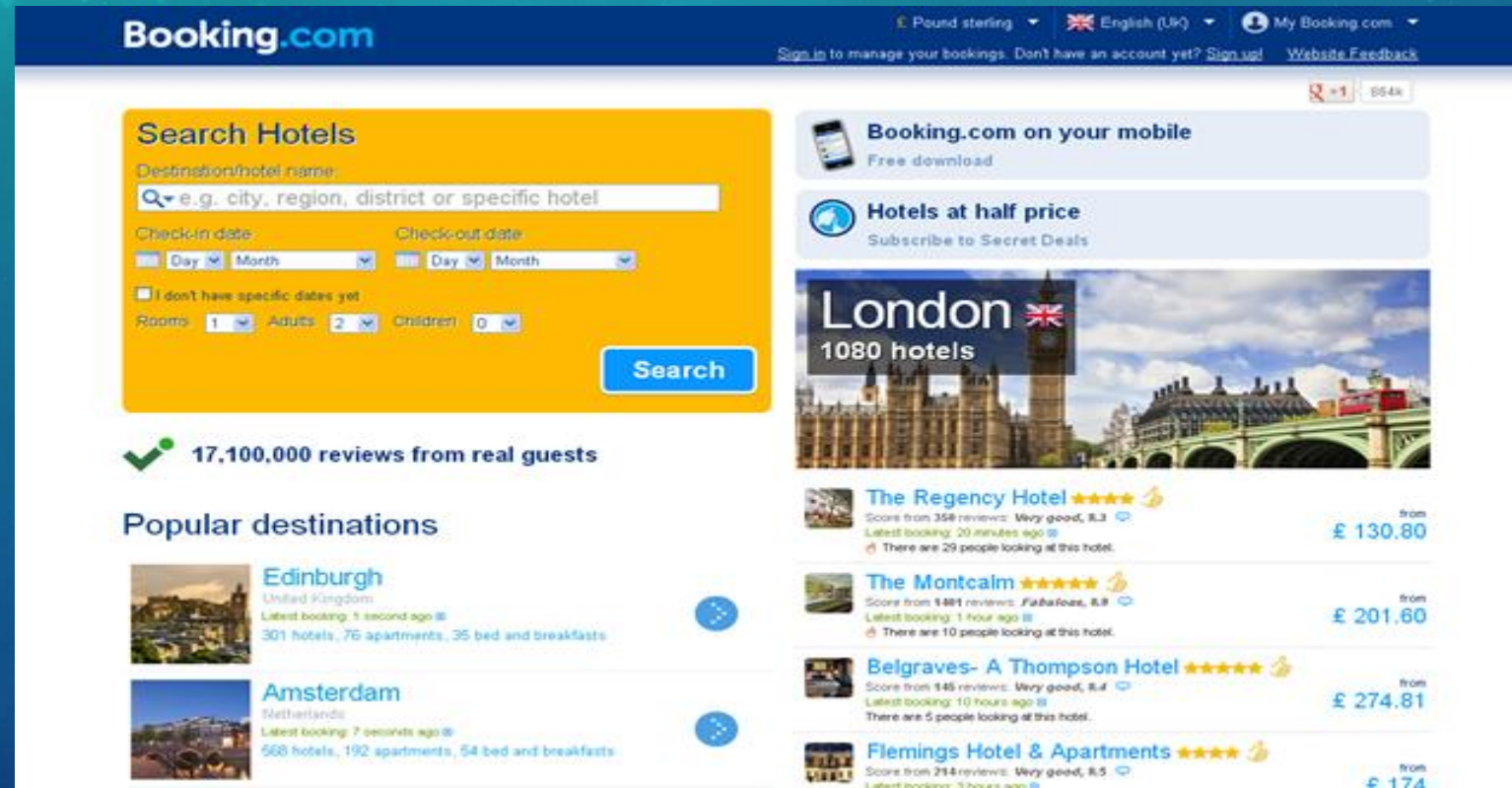
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Dataset name : Hotels' data from booking website(Using data gathering)

Dataset link : booking.com

Target variable name : Price



The screenshot displays the Booking.com homepage. At the top, there's a navigation bar with the Booking.com logo, currency and language selectors (Pound sterling, English (UK)), and a user account link (My Booking.com). Below the navigation bar, a search bar is prominently featured with the text "Search Hotels". It includes fields for "Destination/hotel name" (with a placeholder "e.g. city, region, district or specific hotel"), "Check-in date" and "Check-out date" (both with "Day" and "Month" dropdowns), and a checkbox for "I don't have specific dates yet". There are also dropdowns for "Rooms" (set to 1), "Adults" (set to 2), and "Children" (set to 0). A blue "Search" button is located at the bottom right of the search bar. To the right of the search bar, there are two promotional banners: "Booking.com on your mobile" with a "Free download" button, and "Hotels at half price" with a "Subscribe to Secret Deals" button. Below these banners, a large section titled "London" with a Union Jack flag and "1080 hotels" is shown, featuring a background image of the London skyline. To the left of the hotel listings, there's a section for "Popular destinations" with two entries: "Edinburgh" (United Kingdom, 301 hotels, 76 apartments, 35 bed and breakfasts) and "Amsterdam" (Netherlands, 568 hotels, 192 apartments, 54 bed and breakfasts). Each entry includes a small image and a blue circular icon with a plus sign. On the right side, a list of hotel recommendations is displayed, each with a small image, the hotel name, a star rating, a score from reviews, and the starting price. The hotels listed are "The Regency Hotel" (from £130.80), "The Montcalm" (from £201.60), "Belgraves- A Thompson Hotel" (from £274.81), and "Flemings Hotel & Apartments" (from £174).

**Search Hotels**

Destination/hotel name:  
e.g. city, region, district or specific hotel

Check-in date: Check-out date:  
Day Month Day Month

☐ I don't have specific dates yet

Rooms: 1 Adults: 2 Children: 0

**Search**

✓ 17,100,000 reviews from real guests

**Popular destinations**

**Edinburgh**  
United Kingdom  
Latest booking: 1 second ago  
301 hotels, 76 apartments, 35 bed and breakfasts

**Amsterdam**  
Netherlands  
Latest booking: 7 seconds ago  
568 hotels, 192 apartments, 54 bed and breakfasts

**London**  
1080 hotels

**The Regency Hotel** ★★★★★  
Score from 358 reviews: Very good, 8.3  
Latest booking: 20 minutes ago  
There are 29 people looking at this hotel.  
from £130.80

**The Montcalm** ★★★★★  
Score from 1481 reviews: Fabulous, 8.9  
Latest booking: 1 hour ago  
There are 10 people looking at this hotel.  
from £201.60

**Belgraves- A Thompson Hotel** ★★★★★  
Score from 145 reviews: Very good, 8.4  
Latest booking: 10 hours ago  
There are 5 people looking at this hotel.  
from £274.81

**Flemings Hotel & Apartments** ★★★★★  
Score from 214 reviews: Very good, 8.5  
Latest booking: 3 hours ago  
from £174

# Data sample

hotel_name	location	price	room_type	beds	rating	rating_title	number_of_ratings	per night	Log_number_of_ratings	Log_price	Size
Aloft Riyadh Hotel	Riyadh	475	Breezy Room, Guest room, 1 King	1	8.2	Good	2947	1	7.988543	6.163315	32
Nourth House ApartHotel	Al Qurayyat	200	Budget Twin Room	2	7.5	Good	264	1	5.575949	5.298317	35
Dyar Al Hamra Hotel	Jeddah	340	Junior Suite King	1	7.7	Good	3923	1	8.274612	5.828946	28
Courtyard by Marriott Riyadh Northern Ring Road	Riyadh	525	Standard, Guest room, 1 King	1	8.1	Good	1032	1	6.939254	6.263398	30
Golden Bujari Al-Dhahran - Hotel	Al Khobar	490	Deluxe Twin Room	2	8.4	Good	2315	1	7.747165	6.194405	40